

BRAKE PEDAL (w/ ABS) ON-VEHICLE INSPECTION

1. CHECK PEDAL HEIGHT

Pedal height from asphalt sheet:

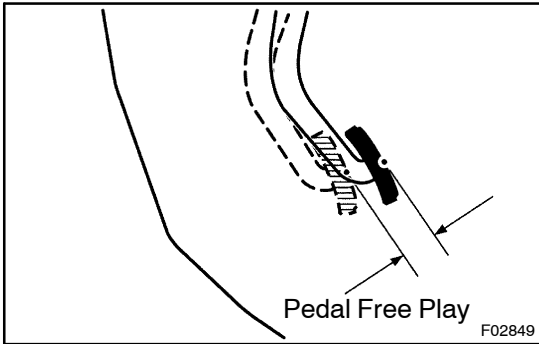
LHD: 183.7 – 193.7 mm (7.232 – 7.626 in.)

RHD: 190.2 – 200.2 mm (7.488 – 7.882 in.)

If the pedal height is incorrect, adjust it.

2. IF NECESSARY, ADJUST PEDAL HEIGHT

- (a) Remove the scuff plate, cowl side trim, lower No. 1 panel, LH lower panel and No. 2 heater to register duct (See Pub. No. RM616E on page BO-127).
- (b) Remove the steering wheel pad, steering wheel lower No. 2 and No. 3 covers, steering wheel, combination switch, column upper and lower covers, steering column assembly and thrust stopper (See Pub. No. RM616E on page SR-13 or SR-29).
- (c) Disconnect the connector from the stop light switch.
- (d) Loosen the stop light switch lock nut and remove the stop light switch.
- (e) Loosen the push rod lock nut.
- (f) Adjust the pedal height by turning the pedal push rod.
- (g) Tighten the push rod lock nut.
Torque: 25 N·m (260 kgf·cm, 19 ft·lbf)
- (h) Install the stop light switch.
- (i) Connect the connector to the stop light switch.
- (j) Push in the brake pedal 5 – 15 mm (0.20 – 0.59 in.), turn the stop light switch to lock the nut in the position where the stop light goes off.
- (k) After installation, push in the brake pedal 5 – 15 mm (0.20 – 0.59 in.), check that stop light lights up.
- (l) After adjusting the pedal height, check the pedal free play.
- (m) Install the thrust stopper, steering column assembly, column upper and lower covers, combination switch, steering wheel, steering wheel lower No. 2 and No. 3 covers, and steering wheel pad (See Pub. No. RM616E on page SR-24 or SR-37).
- (n) Install the No. 2 heater to register duct, LH lower panel, lower No. 1 panel, cowl side trim and scuff plate (See Pub. No. RM616E on page BO-133).



3. CHECK PEDAL FREE PLAY

- (a) Stop the engine and depress the brake pedal more than 40 times until there is no more pressure left in the booster.
- (b) Push in the pedal by hand until the second point of resistance begins to be felt, then measure the distance, as shown.

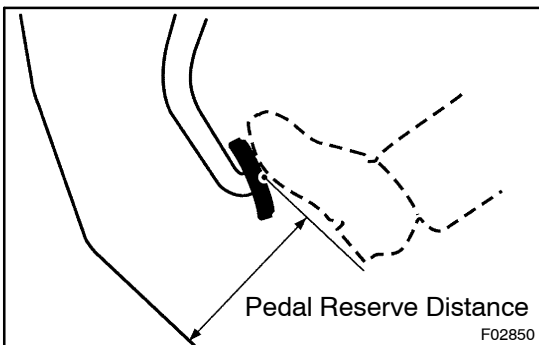
Pedal free play: 1.0 – 6.0 mm (0.039 – 0.236 in.)

If incorrect, check the stop light switch clearance. If the clearance is OK, then troubleshoot the brake system.

Stop light switch clearance: 1.9 mm (0.075 in.)

HINT:

The freeplay to the 1st point of resistance is due to the play between the clevis, pedal link and pin. It is 1.0 – 6.0 mm (0.039 – 0.236 in.) on the pedal.



4. CHECK PEDAL RESERVE DISTANCE

- (a) Remove the floor carpet.
 - (b) Release the parking brake.
- With the engine running, depress the pedal and measure the pedal reserve distance, as shown.

Pedal reserve distance at 490 N (50 kgf, 110.1 lbf):

LHD: More than 116 mm (4.57 in.)

RHD: More than 121 mm (4.76 in.)

If the reserve distance is incorrect, troubleshoot the brake system.